

2017 Hard Red Spring Wheat Variety Trial at Garrison

Cooperator: Mike Zimmerman, Garrison

| Variety | Sawfly 0-9* | Plant Height inches | Test Weight lbs/bu | Protein % | Grain Yield | | | | |
|------------|----------------|---------------------------|--------------------------|--------------|----------------|------|------|----------------------------|------|
| | | | | | 2015 | 2016 | 2017 | -- Average -- 2 yr 3 yr | |
| | | | | | -----bu/A----- | | | | |
| Faller | 3 | 20 | 52.2 | 15.4 | 52.4 | 65.1 | 17.5 | 41.3 | 45.0 |
| Prosper | 2 | 21 | 51.8 | 15.9 | 54.4 | 62.8 | 17.6 | 40.2 | 44.9 |
| SY Ingmar | 4 | 18 | 54.0 | 15.3 | 51.3 | 62.6 | 17.2 | 39.9 | 43.7 |
| Elgin-ND | 2 | 20 | 52.1 | 15.5 | 48.8 | 60.6 | 20.3 | 40.5 | 43.2 |
| LCS Nitro | 4 | 20 | 53.5 | 14.3 | 47.3 | 59.2 | 20.3 | 39.8 | 42.3 |
| SY Soren | 2 | 19 | 54.0 | 15.8 | 49.1 | 60.4 | 17.1 | 38.8 | 42.2 |
| Barlow | 2 | 19 | 55.5 | 16.1 | 47.9 | 56.7 | 16.4 | 36.5 | 40.3 |
| Redstone | 6 | 19 | 53.8 | 15.6 | 39.4 | 63.9 | 14.4 | 39.1 | 39.2 |
| Bolles | 3 | 21 | 53.0 | 16.7 | 36.0 | 61.1 | 18.6 | 39.9 | 38.6 |
| Glenn | 2 | 21 | 55.2 | 15.6 | 38.3 | 56.1 | 18.9 | 37.5 | 37.8 |
| SY Valda | 2 | 19 | 55.1 | 15.4 | | 69.4 | 22.8 | 46.1 | |
| LCS Prime | 2 | 20 | 56.5 | 13.6 | | 68.4 | 22.4 | 45.4 | |
| HRS 3530 | 2 | 22 | 53.1 | 15.7 | | 66.0 | 19.6 | 42.8 | |
| ND VitPro | 1 | 21 | 55.3 | 15.5 | | 58.7 | 24.2 | 41.4 | |
| Shelly | 3 | 18 | 53.7 | 15.5 | | 62.2 | 19.9 | 41.0 | |
| Linkert | 2 | 19 | 56.7 | 15.5 | | 57.8 | 20.1 | 38.9 | |
| HRS 3419 | 5 | 19 | 52.4 | 16.1 | | 63.2 | 14.3 | 38.7 | |
| Boost | 2 | 18 | 54.4 | 15.8 | | 59.4 | 17.5 | 38.4 | |
| WB9653 | 3 | 19 | 54.0 | 14.8 | | | 22.2 | | |
| Lang-MN | 2 | 20 | 54.4 | 15.3 | | | 21.8 | | |
| SY Rowyn | 2 | 18 | 53.5 | 15.4 | | | 17.7 | | |
| Surpass | 1 | 16 | 53.7 | 14.6 | | | 10.4 | | |
| Trial Mean | 2 | 20 | 54.2 | 15.4 | 45.8 | 62.0 | 18.9 | -- | -- |
| C.V.% | 52 | 10.3 | 3.0 | 5.2 | 7.7 | 8.8 | 19.9 | -- | -- |
| LSD 5% | 2 | 3 | 2.3 | 1.1 | 5.0 | 7.7 | 5.3 | -- | -- |
| LSD 10% | 1 | 2 | 1.9 | 0.9 | 4.2 | 6.5 | 4.4 | -- | -- |

*Lodging caused by wheat stem sawfly: 0 = none, 9 = lying flat on the ground.

NS = no statistical difference between varieties.

Planted on April 27 with a seeding rate of 1.25 million PLS/A and harvested on August 8.

Previous Crop: 2014 = barley, 2015 = canola, 2016 = barley.

Tillage: no-till

Soil Type: Williams Bowbells loam

Note: The 2017 trial sustained severe drought and an infestation of wheat stem sawfly.